

# Anti human TR4 mouse monoclonal antibody

TR4: Tasticular receptor 4

**Code No** PP-H0107B-00

**Clone No.** H0107B

**Lot.** \*\*\*

**Concentration** 1 mg/mL

**Volume** 100 uL

**Ig Class** G2a

**Description** TR4(TAK1, NR2C2) is a member of orphan nuclear receptor. TR4 was originally cloned from lymphoblastoma Raji cells or mouse brain cDNA library. No ligand has been reported. Northern blot shows TR4 is transcribed as a 9kb mRNA in many tissues and as a 2.8kb mRNA in testis, mainly in spermatocytes. TR4 has two isoforms called TR4alpha1 and TR4 alpha2, which differ in 19 amino acids coded by two separate exons. Both products translated from 9kb transcript are ubiquitously expressed. Since TR4 binds to the same elements for the RAR-RXR or TR-RXR heterodimers, TR4 may have an inhibitory effect for retinoic-acid mediated transactivation.

**Nomenclature** NR2C2

**Genbank** L27586

**Origin** Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with Baculovirus-expressed recombinant human TR4 (23-52 aa).

**Specificity** This antibody specifically recognizes human TR4 and cross reacts with mouse and rat TR4.

**Purification** Ammonium sulfate fractionation

**Formulation** Physiological saline with 0.1% NaN<sub>3</sub> as a preservative.

## Application / Recommended Concentration

In order to obtain the best results, optimal working dilutions should be determined by each individual user.

**Western Blot** 2 ug/mL

**Non reducing Western Blot** Not yet tested

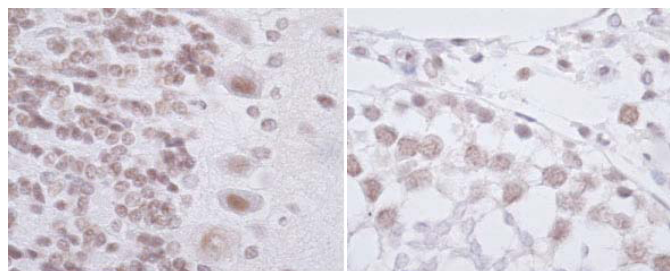
**ELISA** 0.1 ug/mL (A450=0.2)

**Immunoprecipitation** Decide by use

**Supershift Assay** Not yet tested

**Chromatin immunoprecipitation** Not yet tested

**Immunohistochemistry** 10µg/mL



Rat cerebellum  
Purkinje cells and granular cells

Rat testis  
primary and secondary  
spermatocytes

**Storage** Store at 2 - 8 °C up to one month. For long-term storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

## Reference

**Notes** Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.

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